

# FIRETEX® FX5090

## Water-Based Intumescent Coating

**PC 112**

- FEATURES**
- FAST DRYING
  - SMOOTH FINISH
  - GOOD APPLICATION CHARACTERISTICS
  - SUITABLE FOR INTERIOR USE

**USES** Dulux® FIRETEX® FX5090 is a water-based intumescent coating for fire protection of interior structural steel. Dulux® FIRETEX® FX5090 is rated to provide up to 120 minutes of cellulosic fire protection. Dulux® FIRETEX® FX5090 can be used as a part of an approved system in atmospheric corrosivity environments up to C2 as per AS/NZS 2312.1:2014. Dulux® FIRETEX® FX5090 is suitable for use on suitably primed steel.

**SPECIFICATIONS** Tested and approved in accordance with BS 476-20 and BS 476-21  
Assessed in accordance with AS 4100:2020 including AMD 1-2021 to provide an FRR/FRL in accordance with AS 1530.4:2014

### RESISTANCE GUIDE

<b>WEATHERABILITY</b>	Suitable for exposure environments up to C2 as per AS/NZS 2312.1:2014 when used in a suitable system.	<b>SOLVENTS</b>	Not suitable for solvent exposure, refer to approved topcoat data sheet
<b>HEAT RESITANCE</b>	Suitable for cellulosic fire.	<b>WATER</b>	Refer to approved topcoat data sheet.
<b>SALTS</b>	Refer to approved topcoat data sheet.	<b>ALKALIS</b>	Refer to approved topcoat data sheet.
<b>ACIDS</b>	Refer to approved topcoat data sheet.	<b>ABRASION</b>	Refer to approved topcoat data sheet.

### TYPICAL PROPERTIES AND APPLICATION DATA

<b>CLASSIFICATION</b>	Water-based intumescent	<b>APPLICATION CONDITIONS*</b>			
<b>FINISH</b>	Flat		Min	Max	Recommended
<b>COLOUR</b>	White	<b>Air Temp.</b>	5°C	40°C	
		<b>Substrate Temp.</b>	5°C	40°C	
		<b>Relative Humidity</b>		80%	
<b>COMPONENTS</b>	One	<b>FILM THICKNESS (MICRONS)</b>			
<b>VOLUME SOLIDS</b>	69%		Min	Max	Recommended
<b>VOC LEVEL</b>	<25 g/L	<b>Wet film per coat (µm)</b>	285	1000	See FRL/FRR
<b>FLASH POINT</b>	93°C	<b>Dry film per coat (µm)</b>	200	690	See FRL/FRR
<b>POT LIFE</b>	N/A				
<b>MIXING RATIO:</b>	N/A	<b>SUITABLE SUBSTRATES</b>	Suitably primed steel.		
<b>THINNER</b>	Potable Water	<b>PRIMERS</b>	Specified Dulux® Protective Coatings primers.		
<b>CLEAN UP</b>	Potable Water	<b>TOPCOATS</b>	Specified Dulux® Protective Coatings topcoats.		
<b>PRODUCT CODE</b>	774-H0390 White	<b>APPLICATION METHODS</b>	See Airless Equipment Recommendations		

\*Refer to Dulux Water Based Intumescent Application Guide.

### DRYING CHARACTERISTICS AT 700 µm DRY FILM THICKNESS\*

Temperature	Humidity	Touch	Handle	Full Cure	OVERCOAT	
					Min	Max†
5°C	50%	12 Hours	48 Hours	14 Days	16 Hours	Extended
15°C	50%	3 Hours	36 Hours	10 Days	6 Hours	Extended
23°C	50%	2 Hours	24 Hours	3 Days	4 Hours	Extended

\* These figures are a guide only. Drying times will increase at higher film thicknesses. Factors such as air movement must also be considered.

### SPREADING RATE ASSUMING NO LOSSES

**1 square metres per litre equals 690 µm dry film thickness**

NOTE: Practical spreading rates will vary depending on such factors as application method, ambient conditions and surface roughness.

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<b>SURFACE PREPARATION</b>	<b>Steel:</b> Refer to approved prime coat data sheet for surface preparation recommendations. If the maximum recoat window has been exceeded, all affected surfaces must be thoroughly and uniformly abraded prior to the application of another coating. <b>Steel where abrasive blast cleaning is not viable:</b> Refer to approved surface tolerant prime coat data sheet for surface preparation recommendations. Coating performance is proportional to the degree of surface preparation.										
<b>APPLICATION</b>	Mix the entire contents of the product using a double helical mixing blade and power mixer.										
<b>BRUSH/ROLLER</b>	Suitable for small areas only. Apply even coats of the mixed material to the prepared surface and ensure new coats match the thickness of the surrounding area. When brushing and rolling additional coats may be required to attain the specified thickness.										
<b>APPLICATION EQUIPMENT</b>	Airless Spray: Graco® Mark V pump or equivalent. Thinning is usually not required but up to 50ml/litre of potable water may be added to aid application.										
	<table><tr><td>Tip Orifice</td><td>Atomising Pressure</td><td>Mat'l Hose ID</td><td>Filters</td></tr><tr><td>0.019" - 0.021" (483 - 533 microns)</td><td>2,500 - 3,000 psi (172 – 207 bar)</td><td>3/8" material line with 1/4" whip line (9.53mm material line with 6.35mm whip line)</td><td>No filters in Pump Manifold or Spray Gun</td></tr></table>	Tip Orifice	Atomising Pressure	Mat'l Hose ID	Filters	0.019" - 0.021" (483 - 533 microns)	2,500 - 3,000 psi (172 – 207 bar)	3/8" material line with 1/4" whip line (9.53mm material line with 6.35mm whip line)	No filters in Pump Manifold or Spray Gun		
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	NOTE: A 2 metre x 1/4" (6.35mm) whip hose is allowed at the end of a 3/8" material hose for greater ease of application. Maximum length of fluid line should not exceed 60m. The use of non-restrictive swivel connection off the spray gun is recommended.										
<b>PRECAUTIONS</b>	This is an industrial product designed for use by experienced Protective Coating applicators. Where conditions may require variation from the recommendations on this Product Data Sheet contact your nearest Dulux® Protective Coatings Consultant for advice prior to painting. Do not apply in conditions outside the parameters stated in this document without the written consent of Dulux® Protective Coatings. The rate of cure is dependent upon temperature. Do not apply at temperatures below 5°C. At application temperatures below 10°C, drying and curing times will be significantly extended, and spraying characteristics may be impaired. Do not apply at relative humidity above 80% or when the surface is less than 3°C above the dewpoint. No more than two coats by airless spray should be applied within any 24 hour period. The surface to be coated must be totally free of moisture and contaminants. Ensure that in all circumstances the product is applied over suitable primers. Do not use this product without consulting a Dulux® Protective Coatings Consultant.										
<b>CLEAN UP</b>	Clean all equipment with potable water immediately after use. Refer to Dulux® Water Based Intumescent Application Guide for more details.										
<b>APPLICATORS</b>	Dulux® FIRETEX® FX5090 must be applied by a Dulux® Registered Intumescent Applicator.										
<b>SAFETY PRECAUTIONS</b>	<b>Read Data Sheet, SAFETY DATA SHEET and any precautions on container labels. SAFETY DATA SHEETS are available from Customer Service (13 23 77, 0800 800 424) or <a href="http://www.duluxprotectivecoatings.com.au">www.duluxprotectivecoatings.com.au</a></b>										
<b>STORAGE</b>	Store in a well-ventilated area under cover. Keep containers closed at all times. Dulux® FIRETEX™ FX5090 has a shelf life of 10 months from date of manufacture when stored at temperatures between 5°C-30°C.										
<b>HANDLING</b>	As with any chemical, ingestion, inhalation and prolonged or repeated skin contact should be avoided by good occupational work practice. Eye protection approved to AS1337 should be worn where there is a risk of splashes entering the eyes. Always wash hands before smoking, eating, drinking or using the toilet.										
<b>USING</b>	Use with good ventilation and avoid inhalation of spray mists and fumes. If risk of inhalation of spray mists exists, wear combined organic vapour/particulate respirator. When spraying, users must comply with their respective State Spray Painting Regulations.										
<b>FLAMMABILITY</b>	All sources of ignition must be eliminated in, or near the working area. DO NOT SMOKE. If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).										
<b>WELDING</b>	Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding.										

COMPANY INFORMATION	PACKAGING, TRANSPORT AND STORAGE
Dulux Protective Coatings a division of	PACKAGING Available in 18 Litre packs
DuluxGroup (Australia) Pty Ltd 1956 Dandenong Road, Clayton 3168 A.B.N. 67 000 049 427	TRANSPORTATION WEIGHT 1.39 kg/litre (Average of components)
DuluxGroup (New Zealand) Pty Ltd 150 Hutt Park Road, Lower Hutt, NZ A.B.N. 55 133 404 118	DANGEROUS GOODS Class 3 UN 1263

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